



Itanium® Processor Roadmap for the Mission-Critical Market Segment

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Intel® Server Product Family



Intel® Itanium® Processor 9000

Mainframe-class server with ultimate flexibility and reliability



Intel® Xeon® Processor 7100

Maximize performance, reliability & scalability



Intel Xeon Processor 5300

Maximize performance density with Quad-Core processing

Intel Xeon Processor 5100

Efficient performance and performance per watt



Intel Xeon Processor 3000

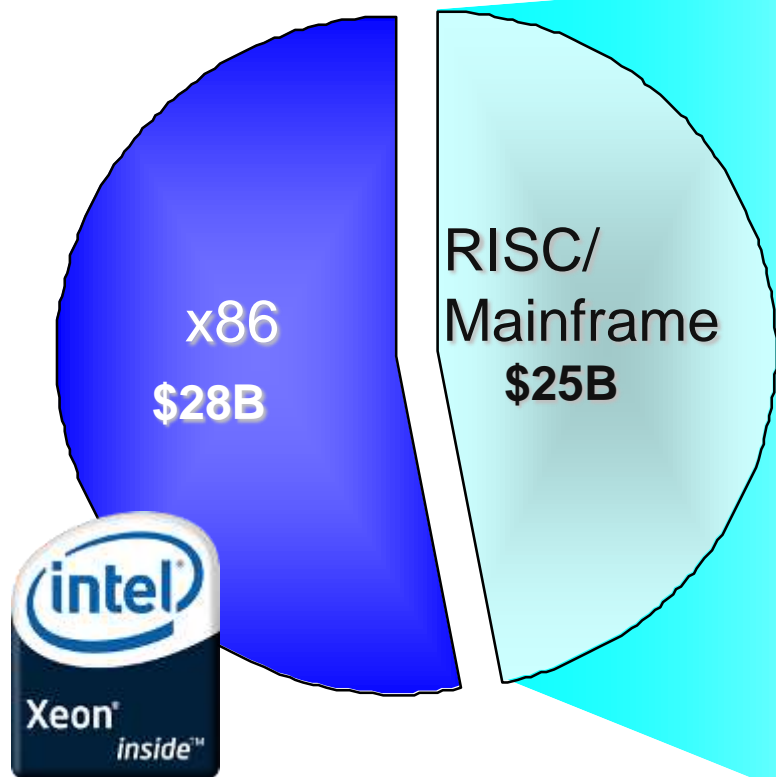
Economical, dependable 1-way servers

Complete Server & Workstation Refresh in All Segments



Itanium Focus: Mission-Critical Datacenter

*Itanium's focus is business-critical,
data-intensive computing*



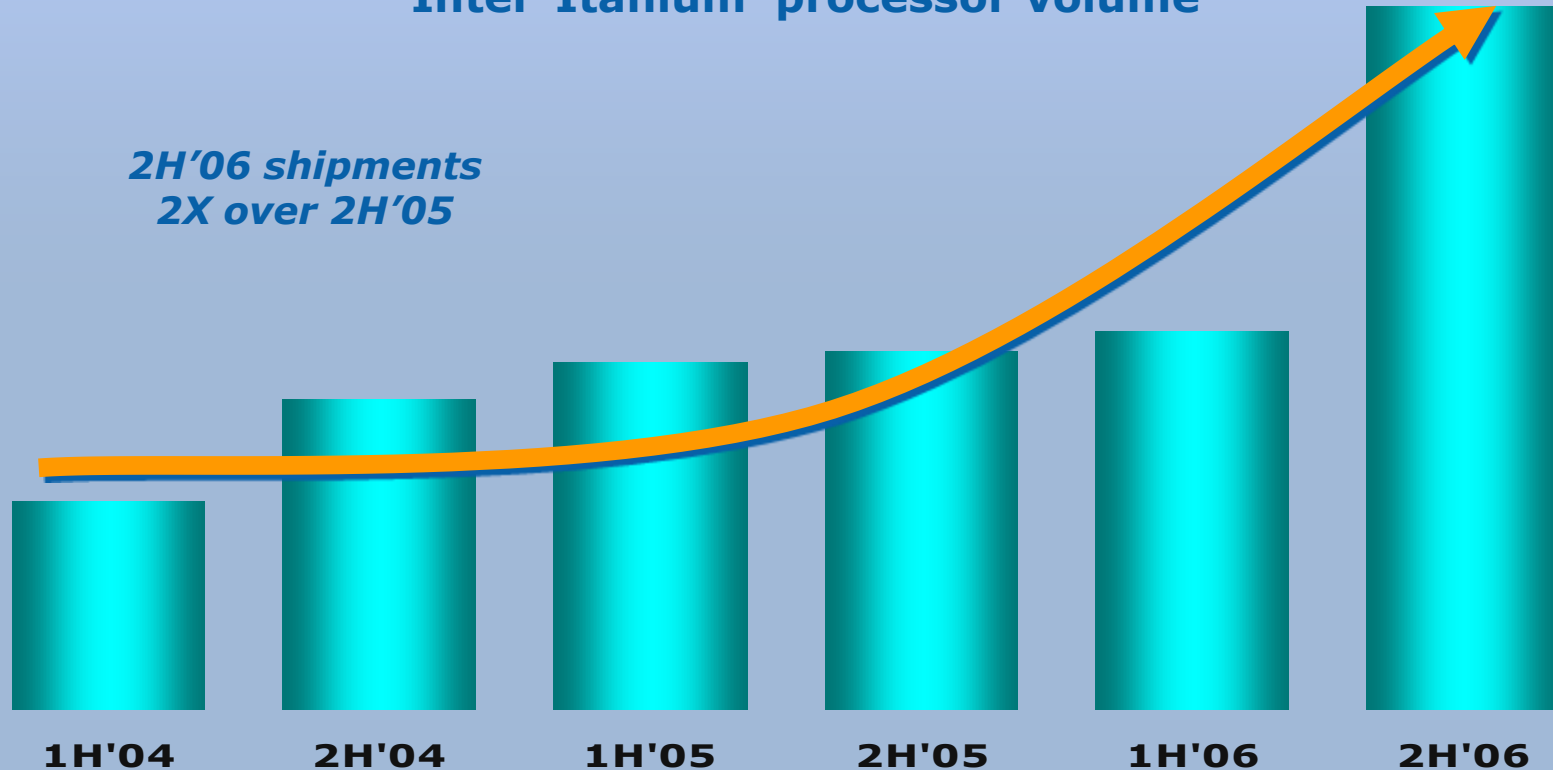
Mission-Critical Computing
RISC / Mainframe Replacement
HPC, Medium & Large Enterprise

Source: IDC Worldwide Quarterly Server Tracker, Q4'06;
share by customer revenue; annual customer revenue for 2006.



Intel® Itanium® Processor Momentum

Intel® Itanium® processor volume



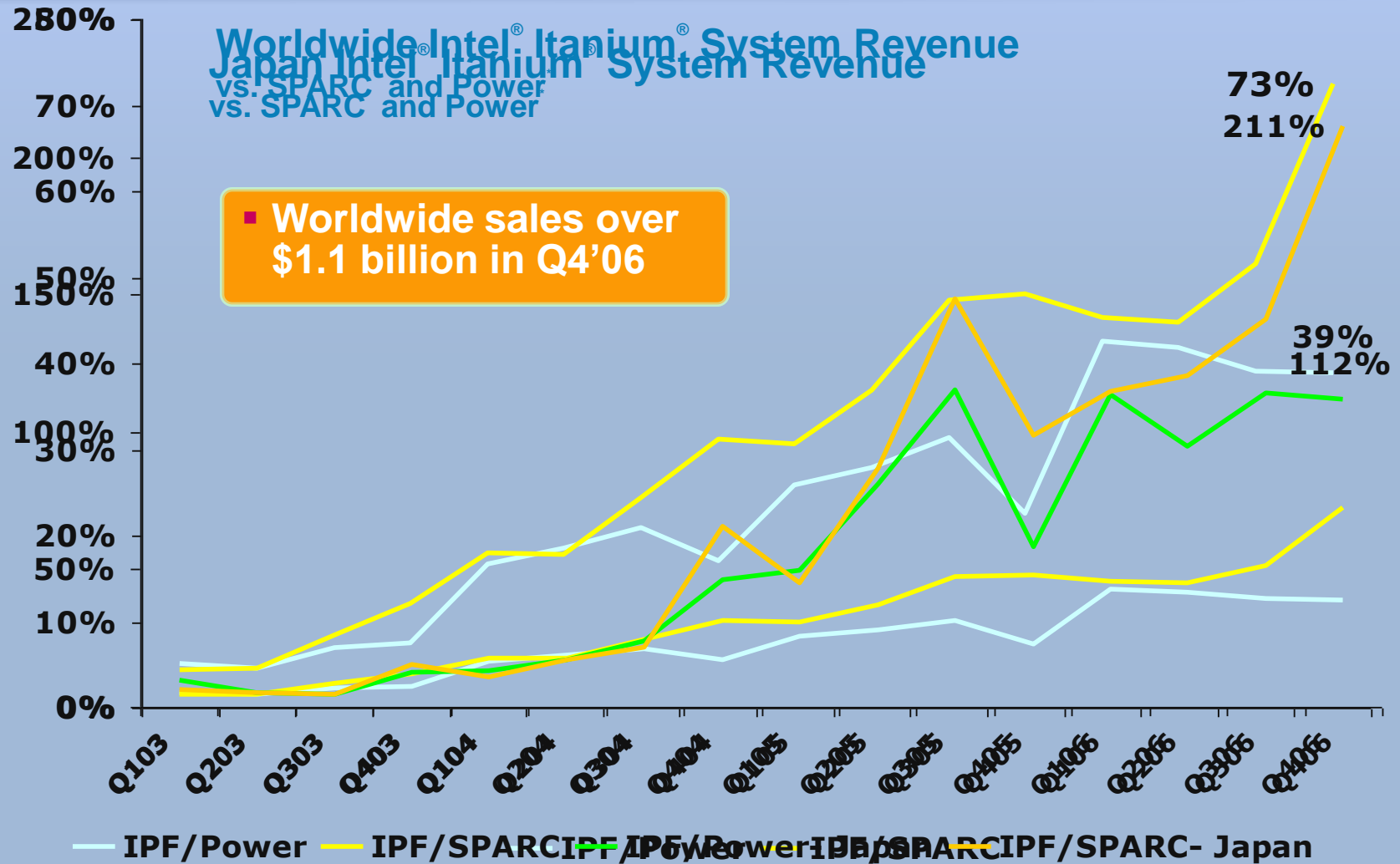
Itanium Customers: Vodafone, Tokyo Stock Exchange, DoD Modernization, BP, Amgen, BASF

~80% of "Global 100" customers use Intel® Itanium®

Software Enabling: SAS, IBM Tivoli, Symantec AV, Oracle AS, Biz Objects DI



Rapid Growth in Itanium-based System Revenue

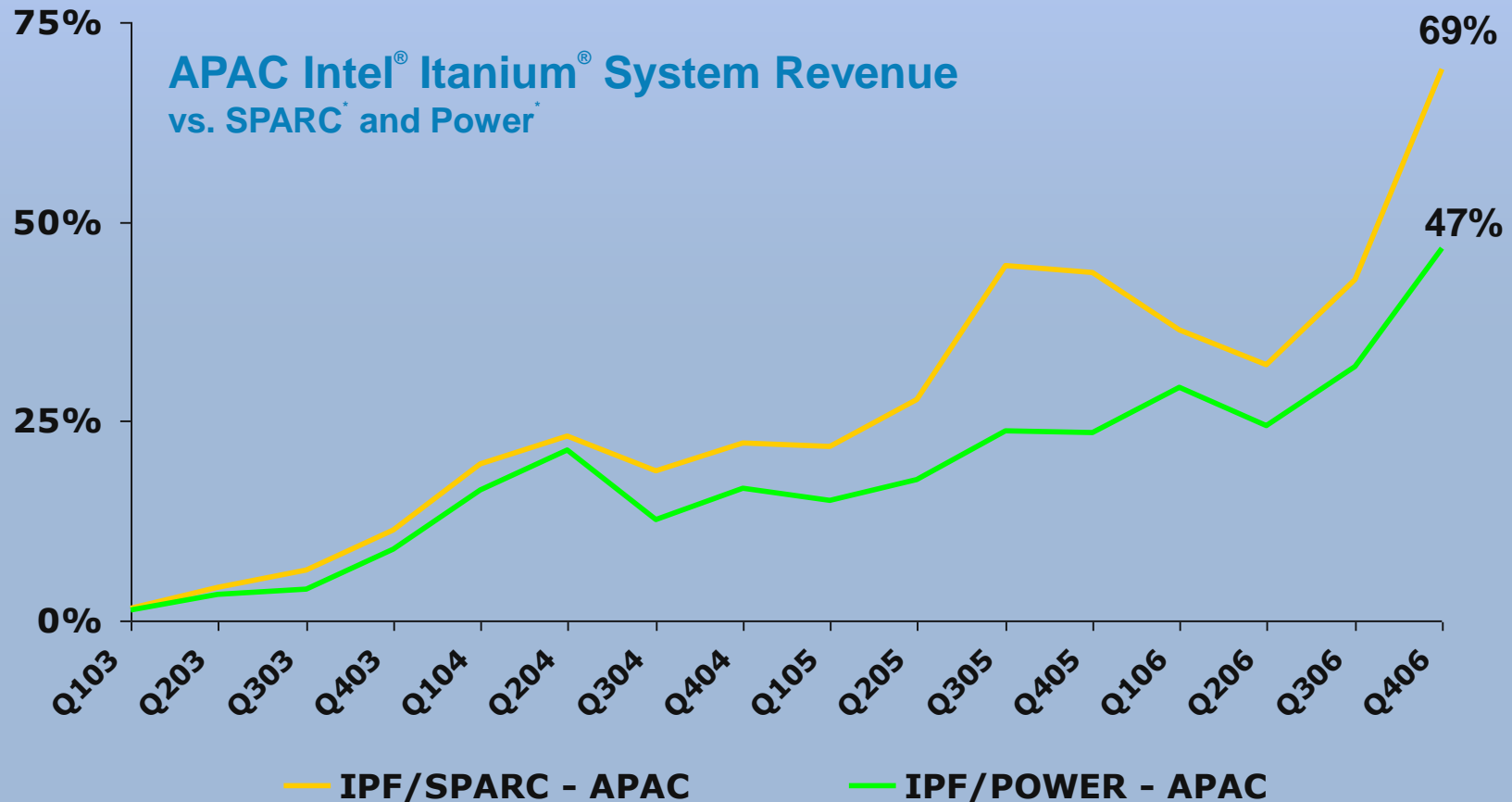


* Source: IDC Q4'06 Server Tracker
 SPARC Includes: SPARC I, SPARC II, SPARC III, SPARC IV, SPARC 64 and SPARC 64 V;
 POWER Includes: Power RS64 II, Power RS64 III, Power RS64 III, Power 3, Power 4, Power 5, and PowerPC
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APAC Itanium-based Solutions Growth

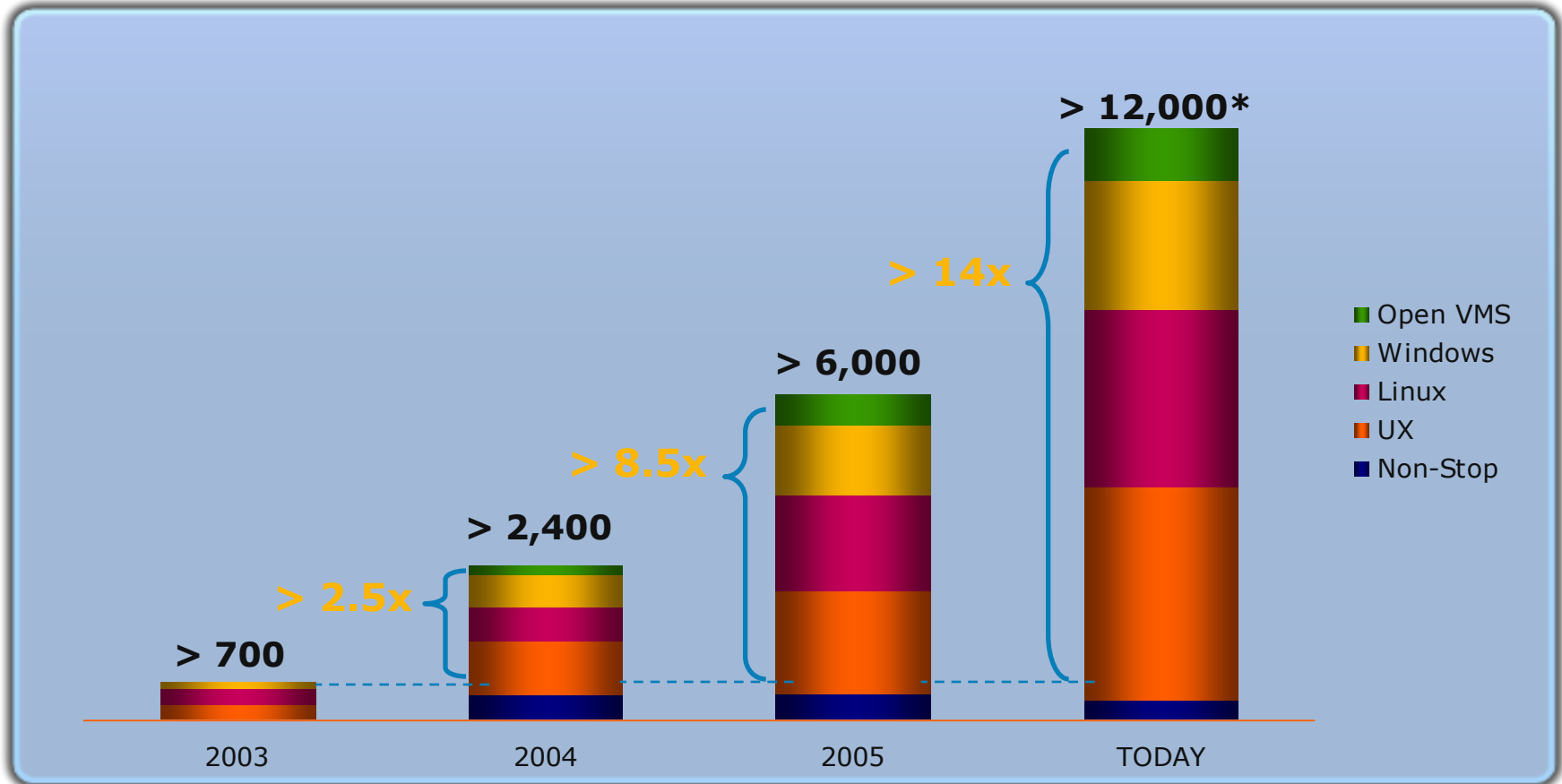


Source: IDC Q406 Quarterly Server Tracker, February 2007

SPARC Includes: SPARC I, SPARC II, SPARC III, SPARC IV, SPARC 64 and SPARC 64 V, UltraSPARC T1
POWER Includes: Power RS64 II, Power RS64 III, Power RS64 III, Power 3, Power 4, Power 5, and PowerPC



Intel® Itanium® 2 processor Cumulative Application Growth



>50% of 2006 Growth on Linux* & Windows* apps

All dates, product features and plans are subject to change without notice.

* As of February 20, 2007

Source: Itanium Solutions Alliance <http://www.itaniumsolutionsalliance.org>



Enabling the Next Generation of Business Competitiveness and Innovation

100,000+ deployments



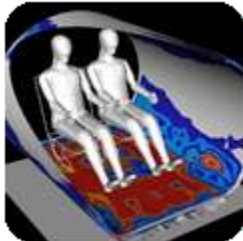
Efficient, Nimble Financial Markets
World's Largest Stock Exchanges
8 of the Top 10 Financial Services Corporations



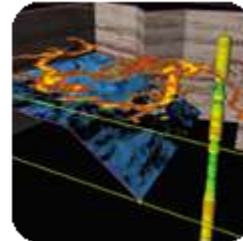
Exploration & Science
Bringing the Shuttle Back to Space
Scientific Computing



Disaster Management and Response
Tsunami, Avian Flu, Mad Cow



Faster, Safer, More Efficient Automobiles
12 of the Top 13 Automobile Manufacturers



Efficient Oil and Gas Recovery
19 of the Top 20 Energy Companies



Itanium® Platform Vision and Value



Reliable & Secure

**RISC/
mainframe class
reliability**

**Secure data center
foundation**

Scalable Performance

**Performance to handle
mission-critical
workloads &
configurations**

Unparalleled scalability

Open & Flexible

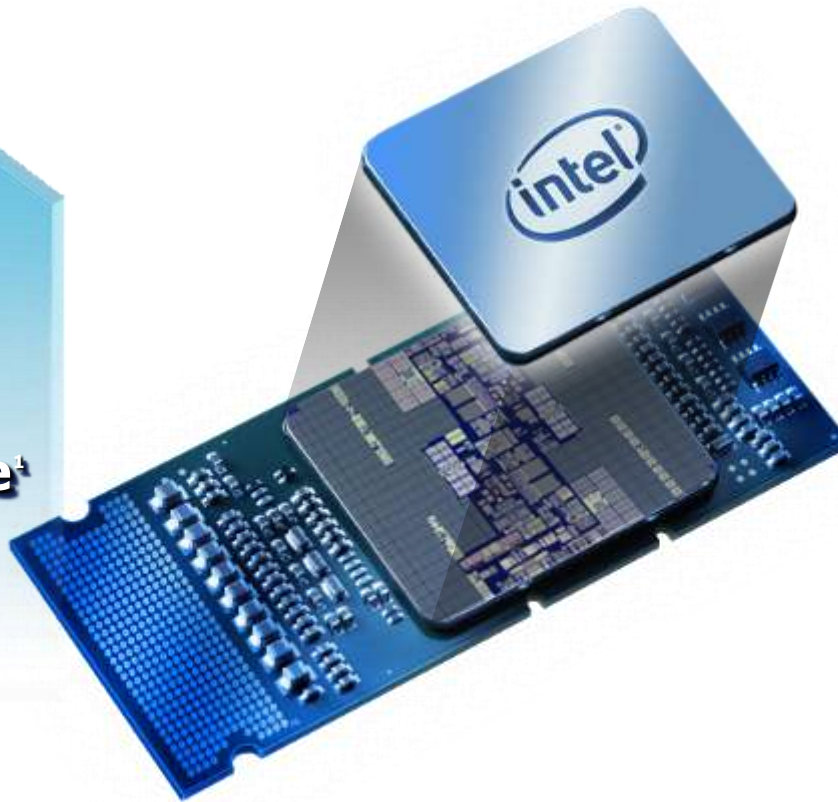
**Flexibility to support
multiple OS's
—Advanced
Virtualization support
built in.**

**Rich global ecosystem,
Wide range of OEM
configurations**

**Flexible, open architecture delivering scalable performance, built on
bedrock of extreme reliability & security**

Itanium® 2 Processor 9000 Series

Up to
2X
Better
Performance¹



Up to
20%
Lower Power¹

Up to **2.5x** Better Performance per Watt¹

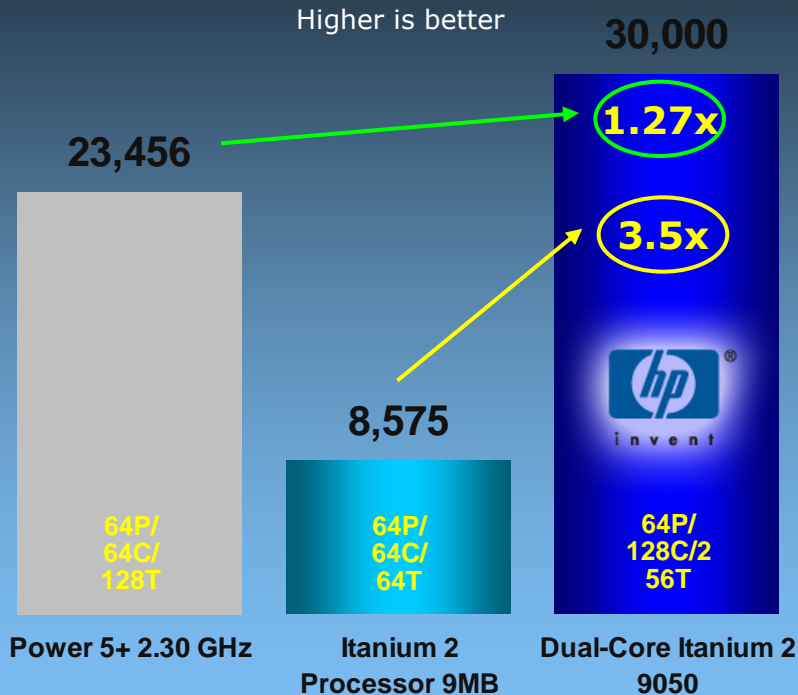
Hitachi* Cold Fusion-3e/4S-4U Server (Itanium® 2 Processor 9050, 16GB) and Intel® SR870BN4 Server System (with Itanium® 2 Processor w/9M L3 Cache, 16GB). Measured power. StarCD, Workload Version: V3.22 (64bit). Other names and brands may be claimed as the property of others



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Dual-Core Intel® Itanium® 2 Processor delivers outstanding scalable performance for business-critical workloads

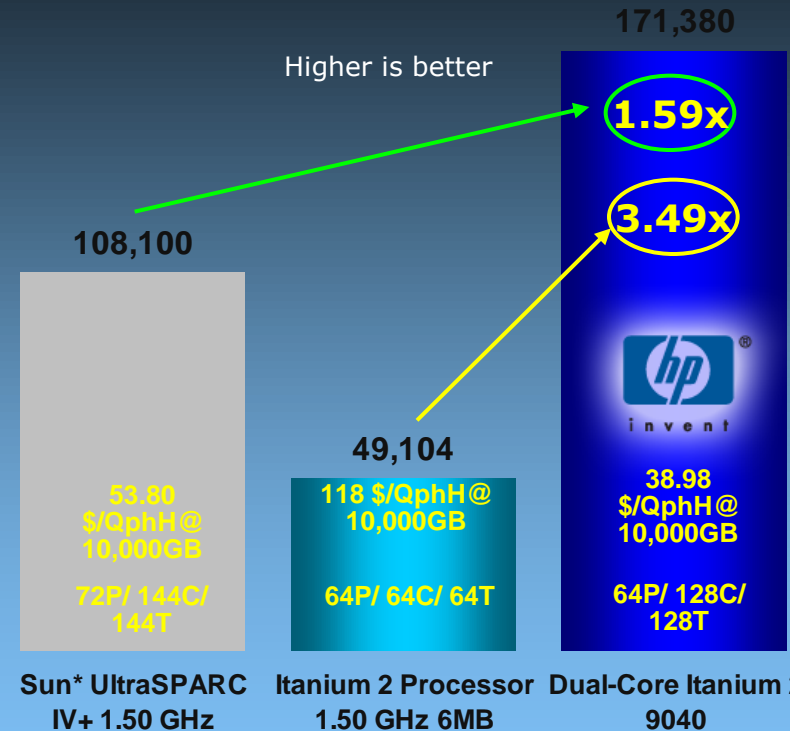
World record ERP performance –
most SAP users supported by Server
SAP* SD 2-tier benchmark



Data Source: Published results as of Dec 18, 2006. See backup for details.
P = processors, C = cores, and T = threads.

SAP* SD 2-tier benchmark
(Number of users)

World record TPC Benchmark H* result –
make smarter decisions
with complex data at a better value



Data Source: Published results as of Dec 18, 2006. See backup for details.
P = processors, C = cores, and T = threads.

TPC Benchmark H* - 10,000 GB
Best-in class OLAP price / performance

Dual-Core Itanium 9050 – Dual-Core Intel® Itanium® 2 Processor 9050 (“Montecito 1.60 GHz”); Itanium 2 Processor 9 MB – Intel® Itanium® 2 Processor 1.60 GHz with 9 MB L2 cache; (“Madison 2.66 GHz”); Power 5 – IBM System P5* Model 595 using IBM Power* 5+ Processor 2.30 GHz;

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Dual-Core Intel® Itanium® 2 processor 9000 sequence

Server performance publications

	World record	Numbers
★	SPECint_rate_base2000 – 256C	4230
★	SPECfp_rate_base2000 - 256C	4937
★	SPECjbb2005 – 256C	3772246
★	SPECjAppsvr2004 – 32C	4915
★	TPC Benchmark C (64P/128C)	4,092,790 (US\$2.93)



**5 New World
Records**

Itanium 2 9000 series: Dual Core Itanium 2 “Montecito 1.6Ghz”

Data Source: Published or Submitted results as of Feb, 2007. See backup for details

“p” is a processor or socket and “C” is a core



Security and Virtualization

Security

- Goal: IPF as the best answer for Enterprise security applications
- Key architecture advantages
- Unique instruction set
- Emerging capability examples

Virtualization

- Goal: Best “Partitioning” on IPF
- Very small context switching times
- Strong custom solutions from OEMs
- Growing base of Xen support, need your help

Key new enterprise opportunities for Itanium



The Itanium® Platform Vision

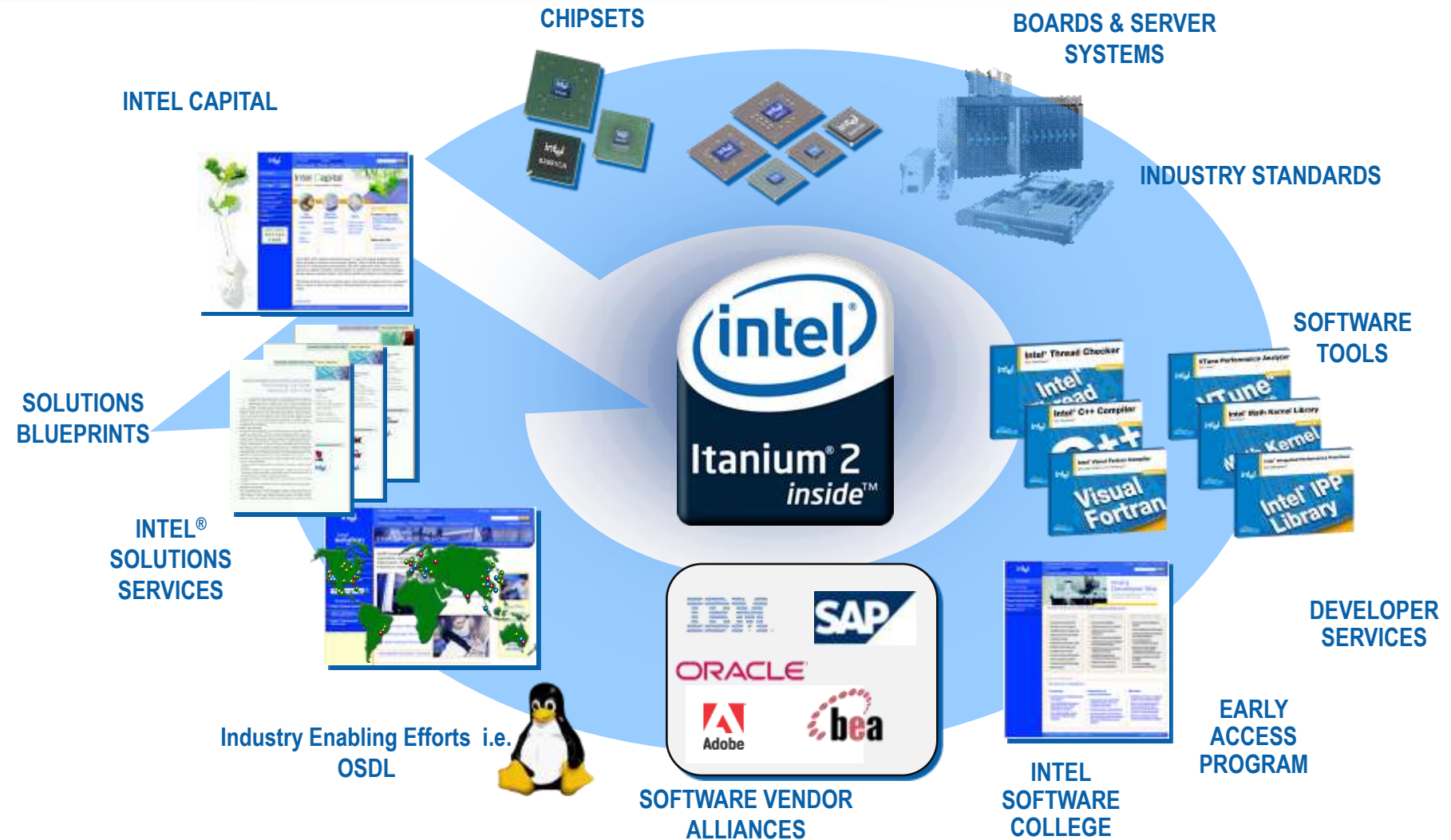


Processor Generation	Dual-Core Itanium 2 Processor 9000 series (Montecito)	Montvale	Tukwila	Poulson
Highlights	Dual-core, On-die 24MB cache, 104W	Dual-core, 667MHz bus, DBS	Quad-core	Multi-core
New Technologies	<ul style="list-style-type: none"> • Dual-core • Hyper-Threading Technology • Intel® Virtualization Technology • Intel® Cache Safe Technology (enhanced cache reliability) 		<ul style="list-style-type: none"> • Multi-core • High speed system interconnects • Common platform architecture with Intel® Xeon® processor MP • Enhanced RAS • Enhanced virtualization • Enhanced I/O & memory 	
Targeted Segments	Enterprise		Business Analytics	
Availability	2006	2007-2008	2008+	Future

* IDC Tracker



Intel's Solution-Enabling Effort



Intel® Software Development Products available on Intel® Itanium® Architecture

- Intel® Compilers
 - The best way to get application performance on Intel® processors
- Intel® VTune™ Performance Analyzers
 - Identify bottlenecks in source code and optimize multi-core performance
- Intel® Performance Libraries
 - Highly optimized, thread-safe, multimedia and HPC math functions
- Intel® Threading Analysis Tools
 - Find threading errors and optimize threaded applications for maximum performance
- Intel® Threading Building Blocks
 - C++ template-based runtime library that simplifies writing multithreaded applications for performance and scalability
- Intel® Cluster Tools
 - Create, analyze, optimize and deploy cluster-based applications



Solution Center Network

http://www.itaniumsolutionsalliance.org/programs/solutions_center_network/

- Technical experts
- Development tools
- Code optimization support



Network providing localized resources across the world



Itanium Solutions Catalog

The screenshot displays the Itanium Solutions Catalog website. At the top, a banner features the text "ITANIUM SOLUTIONS ALLIANCE" and "Delivering a new era in mission-critical computing". Below the banner, a navigation bar includes links for "Alliance Programs", "News Room", "Events", "Resources", and "Members Area". The main content area is divided into several sections:

- Featured Solution:** A box titled "Windows Server 2003 for Itanium-based Systems" provided by [Microsoft Corporation](#). It specifies the "Software Segment: [Infrastructure](#)". The text describes the system's suitability for native 64-bit applications, reliability, availability, and scalability, supporting up to 64-way symmetric multiprocessing (SMP) and 1 terabyte of memory. A link "[View more details >](#)" is at the bottom.
- Search the Itanium Catalog:** A search bar with a "Go" button and a link to "[Advanced Search](#)".
- Recently Released:** A list of recent releases, all dated "Released 09/15/06":
 - [Customer Interaction](#)
 - [Amdocs Support](#)
 - [Amdocs Service Fulfillment](#)
 - [Amdocs Sales](#)
 - [Amdocs Ordering](#)
- Solutions Summit:** A section mentioning a summit to be held in San Jose, CA, in conjunction with the Intel World Wide Developers Conference, featuring over 70 Alliance member companies.
- Solutions Catalog:** A section stating "Itanium solutions are available today!" and inviting users to "View products from enterprise and high-performance solution vendors in the Alliance Solutions Catalog".
- Itanium Customer Success Stories:** A section with a link "[Click here to read more](#)".
- Itanium Solutions Center Network:** A section with the text "The Itanium Solutions Center".

At the bottom, there are two columns of links for browsing by market segment and software:

- Browse by Market Segment:**
 - [Energy](#)
 - [Financial Services](#)
 - [Health Care](#)
 - [Manufacturing](#)
- Browse by Software:**
 - [Enterprise Resource Planning](#)
 - [Business Intelligence](#)
 - [Enterprise Application](#)
 - [Integration](#)

- 12,000+ applications
- Public list
- 2,000+ companies



Summary

Itanium Processor momentum is strong
Focus on mission-critical datacenter growing
Key attributes: Reliability, Flexibility, Scale
Intel tools, ISA Solutions able to help

Most important component: YOU

THANK YOU!



